



Specifications for

TRUSCON

**Waterproofings
Dampproofings
Oilproofings**

BOOK "A"
OF A SERIES OF SIX BOOKS

**THE TRUSCON
LABORATORIES
DETROIT, MICHIGAN, U. S. A.**

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BOOK "A"

TRUSCON

Waterproofings, Dampproofings Oilproofing and Anti-Freeze

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**THE TRUSCON
LABORATORIES**
DETROIT, MICHIGAN, U. S. A.

COMPLETE INDEX OF ALL TRUSCON ARCHITECTURAL SPECIFICATION BOOKS

Any of these Specification Books, or the complete set, will be gladly sent to Architects' or Engineers' offices asking for same.

Book "A"

Waterproofing, Dampproofing, Etc.

REQUIREMENTS	SHEET NO.	PRODUCT
Waterproofing:		
Mass Concrete (Reservoirs, Foundations, Cisterns, etc.)	1	Truscon Waterproofing Paste.
Waterproofed Plaster Coat, for Basements, Tunnels, etc.	2, 3	Truscon Waterproofing Paste.
Cement Stucco.....	4	Truscon Waterproofing Paste.
The Powdered Iron Method (See Dampproofing, Sheet 8)		Ferritex
Dampproofing:		
Interior Black Dampproofing (for Exposed Walls).....	5	Truscon Plaster Bond.
Foundation Dampproofing under Earth Covering.....	6	Truscon Foundation Coat.
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Specifications

(MASS CONCRETE)

1. General:

All concrete shall be waterproofed throughout by the introduction of TRUSCON WATERPROOFING PASTE, *Concentrated*, as manufactured and recommended by The Truscon Laboratories, Detroit, Mich.

2. Ingredients and Proportions for Concrete:

The concrete composing the main body of the structure shall consist of one (1) part cement, two (2) parts of sand, and four (4) parts of stone, each to meet the following requirements:

(a) The cement shall be a high grade Portland, which has been carefully tested and found to pass satisfactorily the requirements of the Standard Specifications of the American Society for Testing Materials, and preferably ground so that 80% shall pass a standard two hundred mesh sieve.

(b) The sand shall consist of spherical grains of any hard rock that is practically free from clay, absolutely free from organic matter, and uniformly graded in size from coarse to fine.

(c) The stone shall be screened from gravel, and shall for sixty per cent (60%) of its bulk be uniformly graded between diameters of one (1) and one and one-half ($1\frac{1}{2}$) inches, and for forty per cent (40%) of its bulk be uniformly graded between diameters of one-quarter ($\frac{1}{4}$) and one (1) inch. A hard crushed trap rock may be substituted for gravel if screened to meet the requirements indicated.

3. Mixing:

The quantity of Waterproofing Paste, Concentrated, used shall be in the proportion of 1 part of Paste by volume to every 36 parts of water. In order to obtain this proportion on the average practical operation, it is recommended that the contractor mix a quantity of Truscon Waterproofing Paste, Concentrated, in a barrel in the proportion of 7 gallons of Paste to 5 gallons of water. (Thus, a barrel could be filled with 21 gallons of Paste and 15 gallons of water and thoroughly mixed.) Add 1 quart of this 7:5 Paste and water mixture to the dry cement and aggregate for each bag of cement. Then temper with clear water as usual.

4. Placing:

All the concrete shall be placed in one continuous operation, each pouring being thoroughly spaded to insure uniform density. In cases where joints are absolutely unavoidable, very special care shall be taken to clean and roughen the old surface and have it thoroughly wet and slush-coated immediately before placing additional concrete.

Condensed Information

Ingredients:

1 part	(by volume)	Portland Cement
2 parts	(by volume)	Clean Sand
4 parts	(by volume)	Stone

Waterproofing:

- 1st. Mix 7 gallons of Truscon Waterproofing Paste, Concentrated, and 5 gallons of water.
- 2nd. Use 1 quart of this mixture to each bag of cement, adding same to the dry cement and aggregate. Then temper with clear water as usual.

Quantity Required:

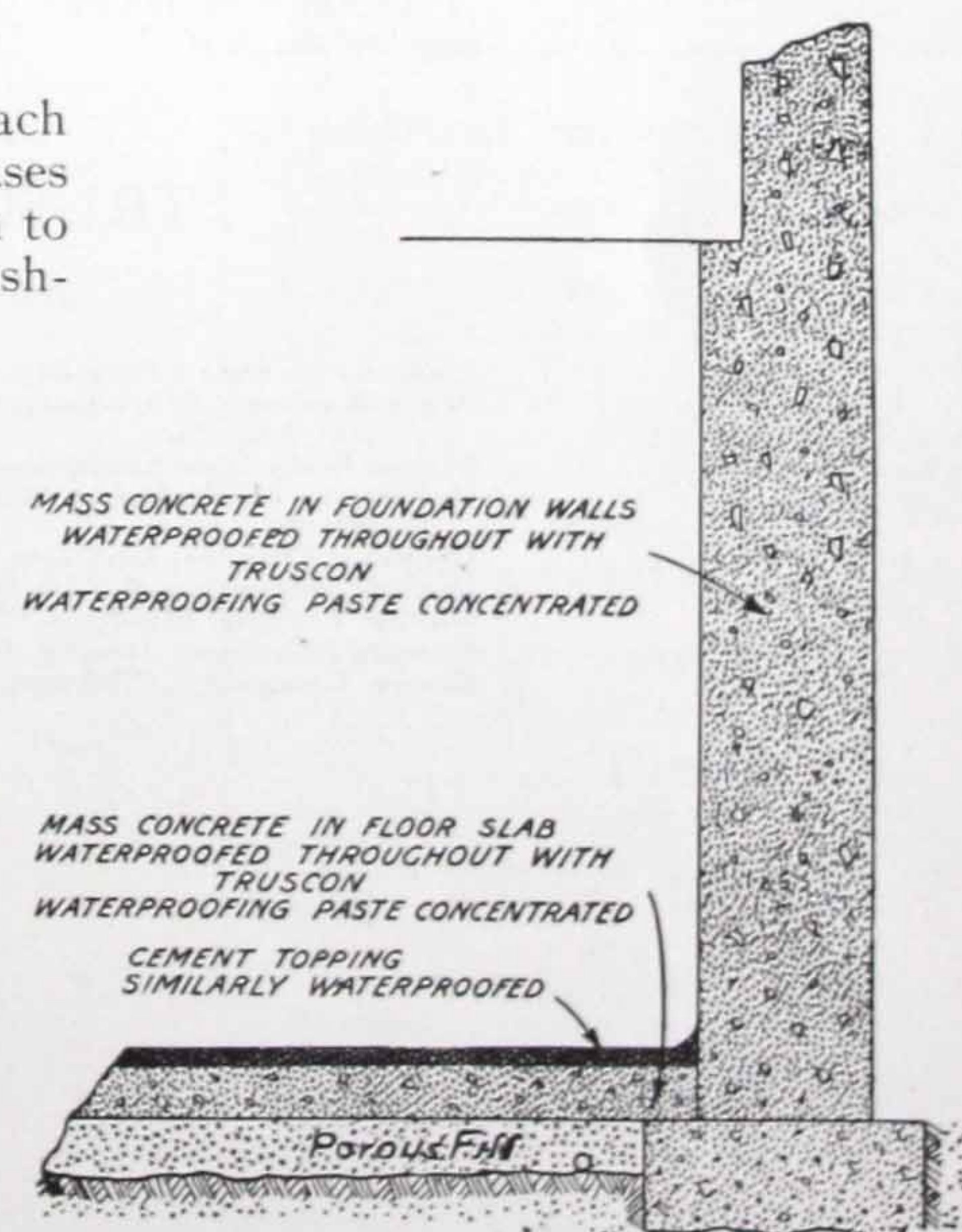
Estimate 7 pounds of Truscon Waterproofing Paste, Concentrated, to every cubic yard of concrete poured.

Waterproof mass concrete

Integral method applicable to standpipes, cisterns, reservoirs, foundations and all similar structures.



For Description of Truscon Waterproofing Paste, see back of this sheet.





TRUSCON WATERPROOFING PASTE Concentrated

TRUSCON WATERPROOFING PASTE, *Concentrated*, is a highly water-repellent compound used integrally for waterproofing concrete, Portland cement mortar, stucco or plaster. It is applicable to brick and masonry construction (Sheet No. 2), as well as to concrete (Sheet No. 1). In the case of brick or masonry, TRUSCON WATERPROOFING PASTE is used in a waterproofed cement plaster coat applied to the construction.

The following seven points epitomize the advantages of TRUSCON WATERPROOFING PASTE:

1. **WATER-REPELLENT:** Kills the normal absorption of moisture into the capillary pores of concrete or cement mortar, making such pores water-repellent instead of water-absorptive.
2. **COLLOIDAL:** Is a concentrated colloid and adds to the normal colloidal content of cement mortar, thus increasing its resistance to weathering and wear.
3. **CONCENTRATED:** Contains no clay, lime or other useless fillers. It is all repellent waterproofing.
4. **IN PASTE FORM:** The form most easily mixable with wet cement mortar batches. This insures even distribution of the waterproofing.
5. **NO CHEMICAL REACTION:** Hence does not affect strength of concrete.
6. **LUBRICATES THE MIX:** Produces a concrete which "chutes" easily to the forms—a dense and compact concrete. Especially recommended for cement mortar and stucco, as it makes these materials easier to apply.
7. **INSOLUBLE IN WATER:** Hence cannot be washed out or affected by time or weathering.

Descriptive booklet entitled "Science and Practice of Integral Waterproofing" gladly sent on request.

A Few Users of TRUSCON WATERPROOFING PASTE Concentrated

General Motors Office Bldg., Detroit, Mich.
Sears-Roebuck Warehouse and Store, Philadelphia, Pa.
Fisher Body Ohio Company, Cleveland, Ohio.
University of Michigan Hospital, Ann Arbor, Mich.
Chicago Theatre, Chicago, Ill.
Detroit Filtration Plant, Detroit, Mich.
Victor Talking Machine, Co. Camden, N. J.
Cornell Stadium, Ithaca, N. Y.
Crane Company, Chicago, Ill.

Belknap Hdwe. Co., Louisville, Ky.
Reservoir No. 3, Omaha, Nebr.
Rochester Sewage Disposal Plant.
Burroughs Adding Machine Co., Detroit, Mich.
Swift & Company, So. Omaha and Cambridge.
Boston & Maine Railway.
Cadillac Motor Car Co., Detroit, Mich.
Masonic Temple, Detroit, Mich.
St. Elizabeth's Hospital, Lafayette, Ind.
Thompson-Starrett Co., New York, N. Y.
Michigan Alkali Works, Wyandotte, Mich.

(for more names, see back of sheet 3)

Waterproof Cement Plaster Coat

Specifications

(CEMENT PLASTER COAT)

1. General:

Waterproofness shall be secured by plastering the interior surface of the structure with a continuous coat of Portland cement mortar waterproofed with TRUSCON WATER-PROOFING PASTE, *Concentrated*, as manufactured and recommended by The Truscon Laboratories, Detroit, Michigan.

2. Ingredients and Proportions of Waterproofed Plaster Coat:

The mortar composing the plaster coat shall consist of one (1) part of cement and two (2) parts of sand, to meet the following requirements:

(a) The cement shall be a high grade Portland, which has been carefully tested and found to satisfactorily meet the requirements of the Standard Specifications of The American Society for Testing Materials and preferably ground so that eighty per cent (80%) shall pass a standard two-hundred (200) mesh sieve.

(b) The sand shall consist of spherical grains of any hard rock that is practically free from clay, absolutely free from organic matter, and uniformly graded in size from coarse to fine.

3. Preparation of the Coating:

The waterproofed cement mortar is obtained through the agency of TRUSCON WATER-PROOFING PASTE, *Concentrated*, used in the proportion of 1 part of Paste by volume to 18 parts of water. The most convenient method of adding the Waterproofing Paste to the mortar is by mixing the Paste half with water in a barrel. (Thus, 20 gallons of Paste thoroughly mixed with 20 gallons of water). Add 2 quarts of this half and half Paste and water mixture to the dry cement and aggregate for each bag of cement. Then temper with clear water as usual.

4. Preparation of Surface to be Coated:

Before plastering the cement mortar, the surface of same shall be treated as indicated in the following:

(a) PREPARATION OF SURFACE—If Concrete—The hardened surface shall be mechanically roughened by chipping and very thoroughly cleaned with a heavy wire broom, so as to remove all dust and dirt. A jet of steam shall be employed to clean the wall, if available.

To the mechanically cleaned surface apply with a large acid brush a liberal coat of one to ten (1:10) solution of Hydrochloric Acid (Muriatic Acid). Allow the acid to remain until it has exhausted itself, which will require at least ten minutes. Apply a second coat of acid solution if the first does not sufficiently clean and expose the surface of the aggregate.

(b) PREPARATION OF SURFACE—If Brick—Bond shall be secured by a thorough cleaning with a wire brush and raking out mortar joints to a depth of $\frac{1}{2}$ ".

(c) PREPARATION OF SURFACE—If Stone-Cement Block—If stone wall is smooth, it shall be roughened by liberal picking of the surface so that the waterproof plaster coat has good bond. In any event, stone or block must be thoroughly wire brushed to remove all dirt and loose particles before the waterproofed plaster coat is applied.

(Continued on next sheet)

Waterproofing concrete and general masonry structures by means of waterproofed plaster coat: applicable to cisterns, reservoirs, foundations, tunnels, subways and similar structures.

For Description of Truscon Waterproofing Paste, see back of sheet 1.

Condensed Information:

INGREDIENTS:

1 part (by volume) Portland Cement
2 parts (by volume) Clean Sand

WATERPROOFING:

- 1st. Mix 1 gallon of Truscon Waterproofing Paste, *Concentrated*, and 1 gallon of water.
- 2nd. Use 2 quarts of this mixture to each bag of cement, adding same to the dry cement and sand and temper with clear water as usual.

QUANTITY REQUIRED: (Average Basement).

$\frac{3}{4}$ " Plaster Coat—6 pounds to 100 square feet.
2" Floor Topping—16 pounds to 100 square feet.

Following is a table giving an estimate of the quantity of cement, sand and Waterproofing Paste required for waterproofed Cement Plaster Coats (1:2 mix), or Floor Topping of varying thickness, from $\frac{1}{2}$ " to 2".

Proportions	Thick- ness	Bbbs. Cement	Cubic Yds. Sand	Lbs. Paste
1 part Cement	1 $\frac{1}{2}$ "	1.50	.42	12
2 parts Sand	1"	1.00	.28	8
Area 100 sq. ft.	$\frac{3}{4}$ "	0.75	.21	6
	$\frac{1}{2}$ "	0.50	.14	4



Specifications

(Concluded)

5. Slush Coat:

With a hose, under good pressure, slush the surface so as to remove all loose particles. Continue slushing until the whole surface is thoroughly cleaned and soaked to its full hydrometric capacity. To the cleaned, water-saturated surface, apply with a strong fibre brush, a coat of pure cement mixed to a creamy consistency with water to which TRUSCON WATER-PROOFING PASTE, *Concentrated*, has been added in proportion as per paragraph 4. Rub in vigorously, so as to fill in all crevices.

6. Application of Plaster Coating to Sides:

Immediately after applying the above slush coat, the first coat of waterproofed cement mortar shall be applied to a thickness of three-eighths of an inch ($\frac{3}{8}$ "') directly on the slush coat, and well trowelled and rubbed into the crevices of the surface. This first coat shall be lightly scratched before showing initial set.

Before this first coat has reached its final set the second coat shall be applied, of equal thickness, so as to give a *full average thickness of three-quarters of an inch* ($\frac{3}{4}$ "'). Most special care shall be exercised to apply this finish coat before the first coat has reached its final set. This finish coat shall be thoroughly floated to an even surface and subsequently trowelled free from any porous imperfections.

The $\frac{3}{4}$ " plaster coat should stop about 6" from the base—and where used in basements should extend up to a point about one foot above grade.

7. Application of Floor Topping:

The floors shall be prepared and treated exactly as indicated above and finished with a waterproof cement mortar to a *thickness of two inches* (2"). Special care should be exercised to bond the wall coating to the floor coating, so as to make the waterproofed coating continuous over the entire surface. Round all corners, never use a sharp-pointed trowel in corners—it being better practice to use an old spoon or a milk bottle for finishing corners than a pointed trowel.

Joints between the $\frac{3}{4}$ " Plaster Coat and the 2" Topping should never be made abruptly, but always at a long acute angle (3" to 4").

8. Pressure:

Where water is running through the wall, proper drainage must be provided by drilling holes and inserting tubes in the wall, to concentrate the flow of water. With the pressure relieved, the waterproofed plaster coat shall be applied to the drained portions of the wall. The drainage pipes shall remain open until the waterproofed plaster coat has thoroughly set and is capable of resisting the pressure of its own adhesive strength, when the drainage pipes shall be closed with suitable plugs and overcoated with the waterproofed cement mortar.

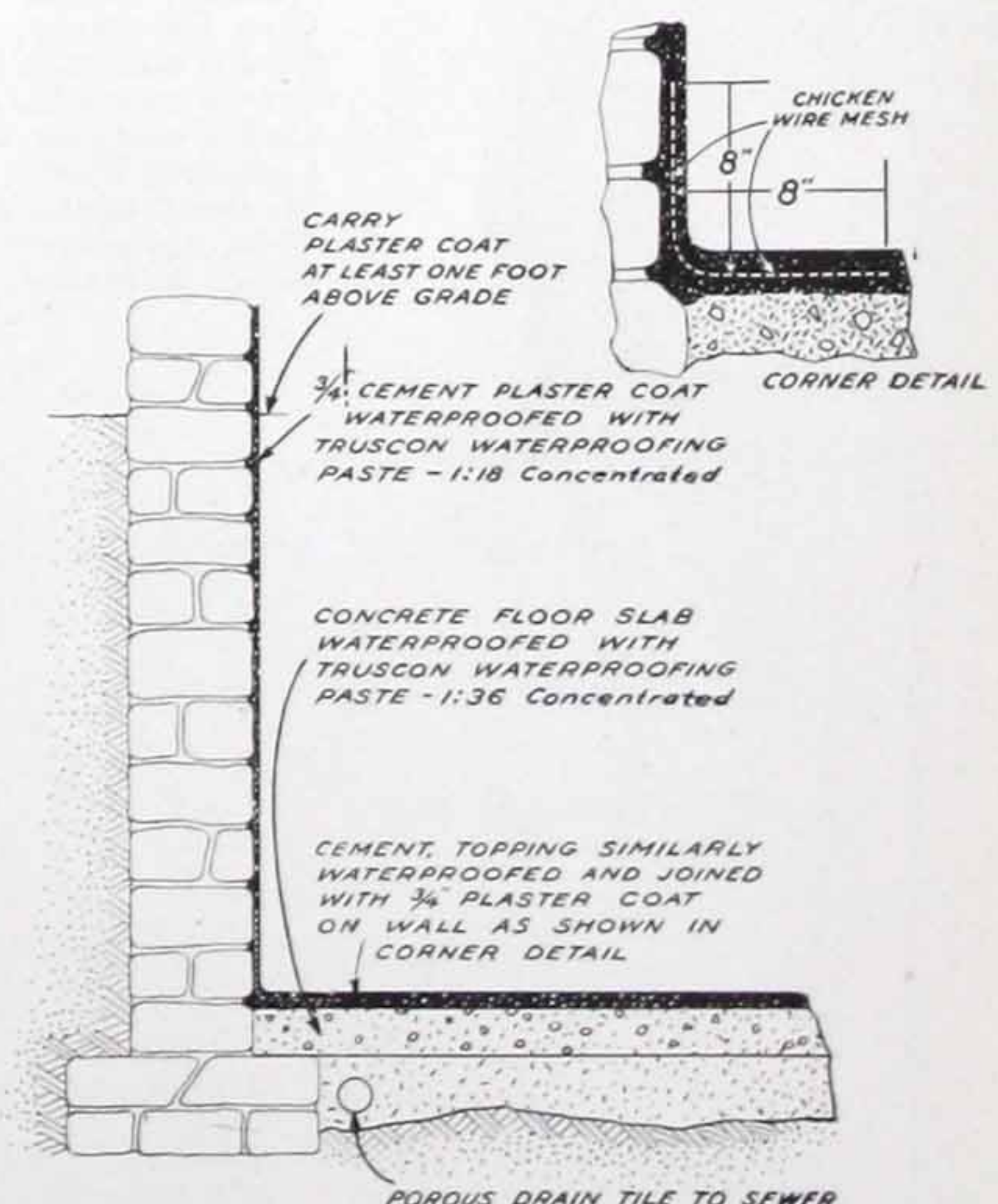
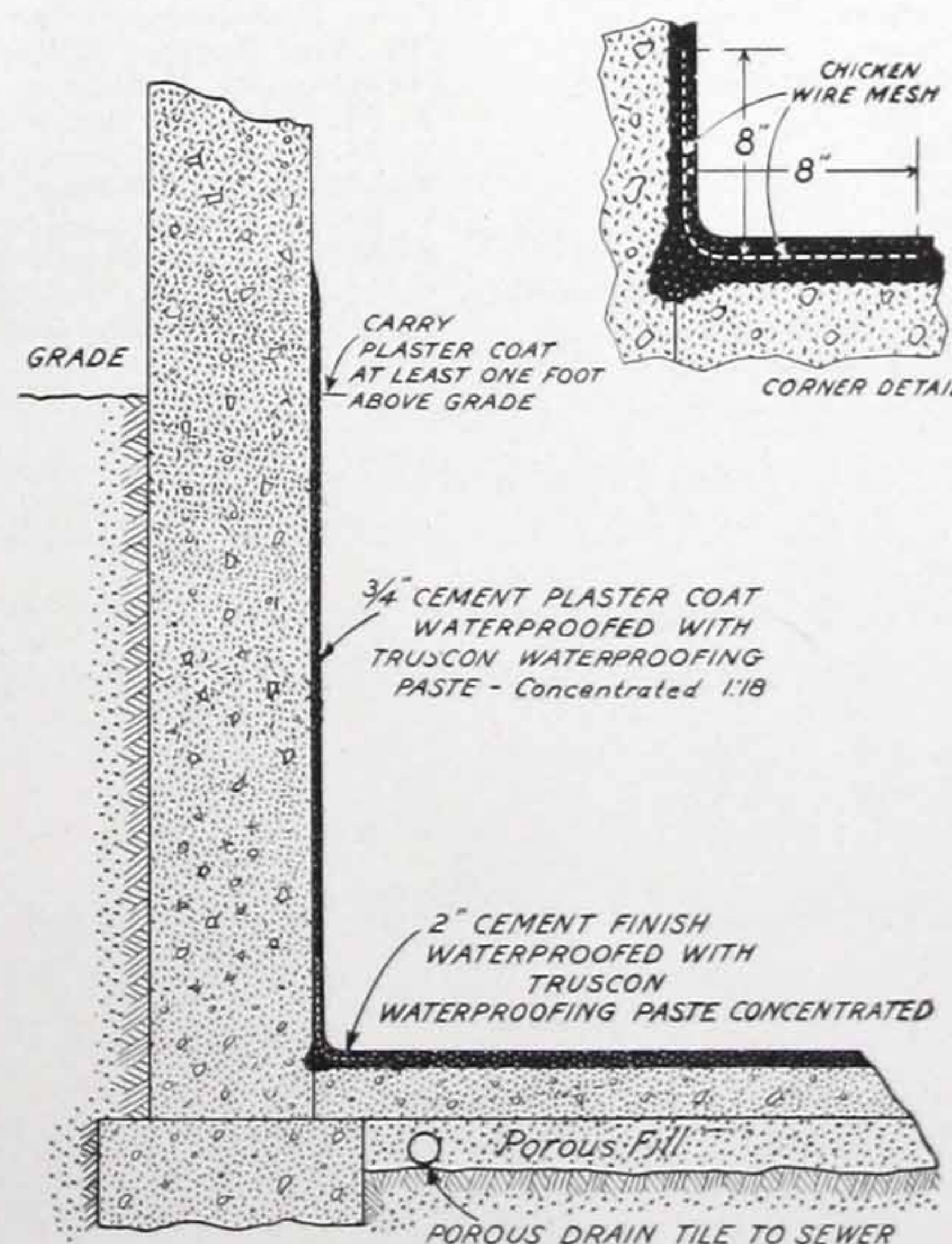
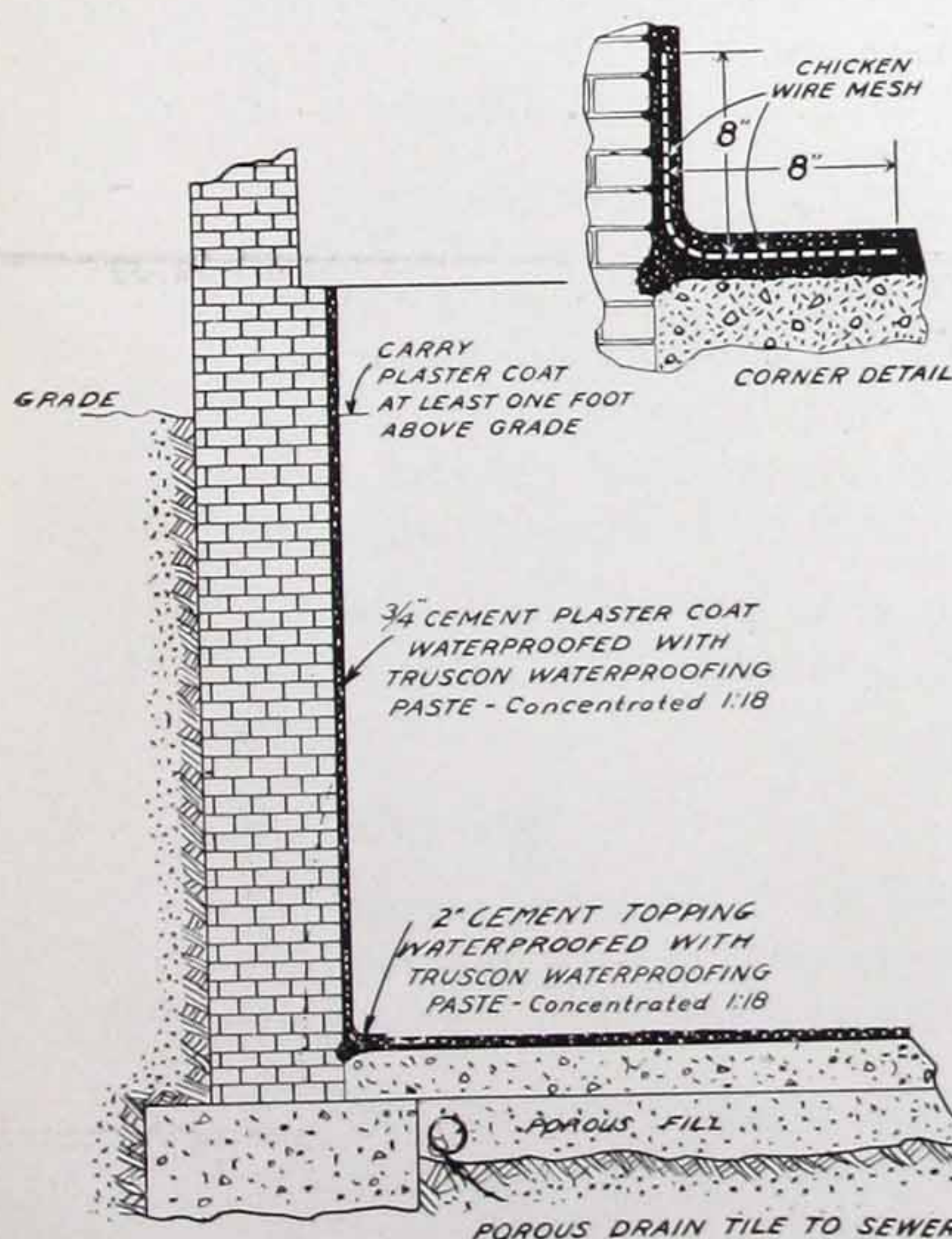
9. Inspection:

When hardened, the waterproofed plaster coat shall be sounded with a light hammer and all loose and defective plaster shall be cut out and replaced.

Waterproof Cement Plaster Coat

(Concluded)

For Description of Truscon Waterproofing Paste, see back of sheet 1.



Illustrating how the Waterproofed Cement Mortar Coating is used in various types of under-grade construction



More Users of TRUSCON WATERPROOFING PASTE Concentrated, (Continued)

Medical College, Charleston, S. C.
Bangor, Me., High School.
Valentine Bldg., New York, N. Y.
Western Sugar Refining Co., San Francisco, Cal.
Ford Service Buildings—
Cincinnati.
Louisville.
Indianapolis.
Atlanta.
Dallas.
New York City.
Philadelphia.
Detroit.
Minneapolis.
Bates Mfg. Co., Lewiston, Me.
Soho Baths, Pittsburgh, Pa.
Oliver Chilled Plow Co., South Bend, Ind.
Stroh Brewing Company, Detroit, Mich.
Edison Illuminating Co., Detroit, Mich.
Pittsburgh Comfort Station, Pittsburgh, Pa.
Arlington Gas Co.
City Reservoir, Daly, Cal.
Atchison, Topeka & Santa Fe Ry.
Kresge Bldg., Detroit, Mich.
Hotel Statler, Detroit, Mich.
Lever Bros. Soap Co., Boston, Mass.
Thomas A. Edison, Newark, N. J.
Goodyear Rubber Company, Akron, Ohio.
Agency Hill Reservoir, Muskogee, Okla.
Grand Central Terminal, New York City, N. Y.
Hawley & Hoops Company, New York City, N. Y.
Revere Rubber Company, Revere, Mass.
Bath Iron Works, Bath, Maine.
Hudson Motor Car Co., Detroit, Mich.
City Reservoir, St. Charles, Mo.
City Reservoir, Hancock, Mich.
City Reservoir, Asheville, N. C.
City Reservoir, Lafayette, Ind.
Lighting Plant, Springfield, Ohio.
Mexican Light & Power Co., Mexico City, Mexico.
Westinghouse Lamp Factory, Watsessing, N. J.
Grain Elevator, Fort Worth, Texas.

General Electric Co., Schenectady, N. Y., etc.
Goldfield Milling & Transportation Co., Goldfield, Nev.
Rogers-Brown Ore Co., Deerwood, Minn.
Markham Air Rifle Co., Plymouth, Mich.
Seaboard Airline Ry., Portsmouth, Va.
Beckett Paper Co., Hamilton, Ohio.
Western Electric Co., New York City and elsewhere.
Inter-Ocean Steel Co., Chicago, Ill.
Jefferson Powder Co., Birmingham, Ala.
Chicago, Rock Island & Southern Ry.
Magee Theatre, Schenectady, N. Y.
Hartman Furniture Co., Warehouse, Chicago, Ill.
Beckwith Stove Plant, Dowagiac, Mich.
Anderson Forge Co., Detroit, Mich.
Armstrong Tannery, Detroit, Mich.
Wissmath Packing Co., Fort Madison, Ia.
Quartermaster's Department, Washington, D. C.
Kling Brewery, Detroit, Mich.
Capitol City Brewery, Montgomery, Ala.
Great Lakes Engineering Co., Ashtabula, Ohio.
Brunett Falls Mfg. Co., Cornell, Wis.
Continental Motor Car Co., Detroit, Mich.
Central Market Building, Detroit, Mich.
Government Light House Caissons, Detroit, River.
Pere Marquette R. R.
Grand Rapids & Indiana R. R.
Edward Ford Plate Glass Co., Rossford, Ohio.
Detroit Free Press Building, Detroit, Mich.
Shepard Building, Chicago, Ill.
Press Building, Pittsburgh, Pa.
Oil Well Supply Building, Pittsburgh, Pa.
Hamburger Building, Pittsburgh, Pa.
Y. M. C. A., Butler, Pa.
Y. M. C. A. Building, Greensburg, Pa.
Y. M. C. A. Building, New Castle, Pa.
Y. M. C. A. Swimming Pool, Red Wing, Minn.
Y. M. C. A. Swimming Pool, Fostoria, Ohio.
Y. M. C. A. Swimming Pool, St. Joseph, Mo.
Y. M. C. A. Swimming Pool, Burnham, Pa.

Specifications

(STUCCO)

1. General:

All cement stucco shall be waterproofed through the introduction of TRUSCON WATERPROOFING PASTE, *Concentrated*, as manufactured and recommended by The Truscon Laboratories, Detroit, Michigan.

2. Materials:

The materials composing the stucco shall consist of:

(a) Portland cement which has been carefully tested and found to meet satisfactorily the requirements of the Specifications of The American Society for Testing Materials.

(b) Sand which is practically free from organic matter and uniformly graded in size from coarse to fine.

(c) TRUSCON WATERPROOFING PASTE, *Concentrated*, as manufactured by The Truscon Laboratories, Detroit, Michigan.

3. Proportions:

The proportions of the above specified materials by volume shall be 1 part cement and 3 parts sand tempered to proper consistency with water. The quantity of Waterproofing Paste used shall be in the proportion of about 1 part of Paste by volume to 18 parts of water. This will be equivalent to a requirement of about 8 pounds of Paste to the 100 sq. ft. of 1" waterproofed cement stucco. The most convenient method of adding Truscon Waterproofing Paste is by mixing the Paste half and half with water in a barrel. (Thus, 20 gallons of Paste thoroughly mixed with 20 gallons of water in a barrel.) Use 2 quarts of this half and half mixture to each bag of cement.

4. Mixing:

The cement shall be added to the dry sand and manipulated until evenly mixed. Add the half and half Waterproofing mixture to the dry cement and sand in the proportion of 2 quarts to the bag of cement and then temper to the correct working consistency with clear water. The mortar must be thoroughly worked until perfectly homogeneous. This composition shall only be made up in lots that can be immediately applied and any material that has been mixed with water over 30 minutes before applying shall be rejected.

5. Application:

All walls shown on elevation for stucco finish shall be two-coat work. The first coat shall be prepared as specified above, with the addition of long cow hair for keying when applied to metal lath. The face of the first coat shall be thoroughly scratched over to form a key for the finish coat, which shall be applied to a total thickness of one inch (1"), when the first coat has set sufficiently hard to safely hold it. The finish coat shall be carefully floated free from any porous imperfections.

When plastering over a masonry surface, special care must be taken to saturate the masonry thoroughly with water and the plaster applied at once.

6. Drying:

Special care shall be taken to avoid too rapid drying. If in direct rays of the sun, the stucco shall be protected with a damp canvas or burlap, and when sufficiently resistant, shall be frequently sprinkled with water.

7. No exterior plastering shall be permitted until all interior partitions are studded up and completely braced.

Waterproof Cement Stucco

lubricates — makes a smooth working stucco — kills absorption—prevents mottling, staining, cracking.



For Description of Truscon Waterproofing Paste, see back of sheet 1.

Condensed Information:

INGREDIENTS:

1 part (by volume) Portland Cement
3 parts (by volume) Clean Sand

WATERPROOFING:

1st. Mix one gallon of Truscon Waterproofing Paste and one gallon of water.

2nd. Use two quarts of this mixture to each bag of cement, adding same to the dry cement and sand, and temper with clear water as usual.

QUANTITY REQUIRED:

Estimate 8 pounds of Truscon Waterproofing Paste for waterproofing each 100 square feet of cement stucco applied 1" thick.



Because of its lubricating value—its ability to make a smooth and easy working stucco, TRUSCON WATERPROOFING PASTE, *Concentrated*, is perhaps used as often in cement stucco for this reason as because of its waterproof characteristics.

Cement stucco containing Truscon Paste, adheres nicely to surfaces, especially hollow tile, as the waterproofing kills the inequalities of suction of the stucco and prevents that mottled appearance, which is so often seen where unwaterproofed cement stucco is used.

Because of the thinness of a section of cement stucco, it is very important to waterproof same—more so perhaps than mass concrete. The action of alternating wetting and drying is very destructive to stucco, which is one of the reasons why many cement stucco surfaces are so short-lived.

More Users of TRUSCON WATERPROOFING PASTE Concentrated, (Continued)

Bevis Hill Reservoir, Schenectady, N. Y.
Sellwood Park Swimming Pool, Portland, Ore.
Water Tank, Cojimar, Cuba.
Cook Brewing Co., Evanston, Ind.
Frick & Lindsay Building, Pittsburgh, Pa.
Helder Manufacturing Co., Carroll, Iowa.
The Mission Conception, San Antonio, Texas.
Los Angeles Brewing Co., Los Angeles, Cal.
Sparta Gas & Electric Co., Sparta, Ill.
Jacksonville Concrete Co., Jacksonville, Fla.
Stitzer Engineering & Contracting Co., Philadelphia, Pa.
Turner & Stewart, Camden, N. J.
McClintic-Marshall Construction Co., Pottstown, Pa.
Atlantic City Gas Co., Atlantic City, N. J.
Bright & Co., Hazelton, Pa.
R. D. Burnett Building, Birmingham, Ala.
U. S. Glass Company, Butler, Pa.
Butler Concrete & Plaster Co., Butler, Pa.
Standard Steel Car Co., Butler, Pa.
10th Regt. Armory, Monongahela, Pa.
Moose Temple, Monnessen, Pa.
U. S. Government Experiment Mine, Wallace Station, Pa.
U. P. Church, Erie, Pa.
St. Pius Church, McKeesport, Pa.
Dusquesne Parochial Schools, Duquesne, Pa.
Pittsburgh Water Heater Co., Idlewood, Pa.
Boggs Building, Pittsburgh, Pa.
Crafton High School, Crafton, Pa.
P. & L. E. Ry.
Keystone Coal & Coke Co., Greensburg, Pa.
New Castle Dry Goods Co., New Castle, Pa.
Pittsburgh Coal Co., Pittsburgh, Pa.

Moffat & Son, Flint, Mich.
Northern Power Co., Potsdam, N. Y.
Caledonia Milling Co., Caledonia, Mich.
Henahan King Co., Toledo, Ohio.
Columbus Machine & Tool Co., Columbus, Ohio.
J. M. Wagenheim & Son, Newark, Ohio.
Herman Gundlach, Houghton, Mich.
Thomas Culinan, Providence, R. I.
Ottaray Canning Co., Ltd., Henderson, N. C.
Wayne County Farm, Eloise, Mich.
Stark Brewing Company, Canton, Ohio.
Penn Mining Co., Vulcan, Mich.
Ledbetter Manufacturing Co., Rockingham, N. C.
Morgan Engineering Co., Alliance, Ohio.
Rubber Regenerating Co., Mishawaka, Ind.
Prestolite Co., Indianapolis, Ind.
Sterling Silk Glove Co., Bangor, Pa.
Adam E. Ferguson Creamery, Lansing, Mich.
Consolidated Gas, Electric Light & Power Co., Baltimore, Md.
Bedford Foundry & Machine Co., Bedford, Ind.
Thomas Brothers, Moosejaw, Sask.
Plymouth Milling Co., Plymouth, Mich.
International Time Recording Co., Endicott, N. Y.
Dr. C. E. Schmitz, Cambridge, Idaho.
First National Bank, Lestershire, N. Y.
Fonnesbeck Knitting Co., Ogden, Utah.
Cheboygan Manufacturing Co., Cheboygan, Mich.
St. Louis South-Western Ry.
Albion Shale Brick Co., Albion, Ill.
Old Crow Distillery, Glen Creek, Ky.
Packard Motor Car Co., Detroit and Philadelphia.
Monongahela Saw & Planing Mill Co., Monongahela, Pa.

Black Damp-proofing for Interiors of Exposed Walls

Plaster can be applied directly over the dampproof coating and be bonded firmly and permanently on the walls.

Specifications

1. General:

The inside surface of all exposed *walls* of the entire building shall be given one uniform application of TRUSCON PLASTER BOND as manufactured by The Truscon Laboratories, Detroit, Michigan.

2. Continuous Coating:

Special care shall be taken to make the coating of PLASTER BOND perfectly continuous over the entire surface. Where practicable, the coating of PLASTER BOND shall be run continuously between the floor and ceiling levels. In cases where the PLASTER BOND cannot be run continuously back of the floor construction, it shall be applied back on the ceiling for at least twelve (12") inches from the wall.

3. Portions for Re-touch Coat:

All portions of the wall which are particularly absorbent shall be given a re-touch coat of TRUSCON PLASTER BOND, so that the entire coated area will have an even, uniform, black appearance.

4. Coating Cut-outs:

Special care shall be taken to coat all portions of the wall where there is any cutting out to permit the passage of pipes subsequent to the application of the PLASTER BOND.

5. Application of Plaster:

The plaster shall not be applied until twenty-four hours after the wall has been coated.

For Description of Truscon Plaster Bond, see back of this sheet.



Plaster is applied directly over TRUSCON PLASTER BOND



Quantity Required:

1 gallon to about 80 square feet for first and retouch coat.



TRUSCON PLASTER BOND is a special bituminous dampproof coating applied to the interior of exposed brick and concrete walls. It provides a continuous dampproof element in the wall and perfectly insulates the interior from any evidence of dampness. Plaster can be applied and will firmly bond to the coated surface. Should not be used on ceilings. Descriptive booklet "Truscon Dampproofing Paints" may be had free upon request.

A Few Users of TRUSCON PLASTER BOND

The Industrial Works, Bay City, Mich.
Free Press Building, Detroit, Mich.
Spellman Art Studios, Detroit, Mich.
Lipman & Wolfe Building, Portland, Ore.
Woodward & Clark Building, Portland, Ore.
Holz Building, Portland, Ore.
Calhoun Hotel, Seattle, Wash.
Seattle Taxicab Co., Seattle, Wash.
Y. M. C. A., St. Joseph, Mo.
T. M. Worcester Residence, Sarasota, Fla.
Paxton Residence, Lake Forest, Ill.
McNulty Bros., Chicago, Ill.
States Plastering Co., Chicago, Ill.
L. M. Grant Residence, Contoocook, N. H.
Princeton University, Princeton, N. J.
Public School at Fremont, Ohio.
Public School at Indianapolis, Ind.
Farmers' Bank Building, Sumter, N. C.
Algonquin Hotel, Dayton, Ohio.
City Jail, Portland, Ore.
Public School, Lima, Ohio.
Fisher Building, Detroit, Mich.
Home Telephone Building, Kansas City, Mo.
Diesel-Wemmer Cigar Co., Delphos, Ohio.

Hydro-Carbon Company Building, Wichita, Kas.
Castle Gould Estates, Castleton, N. Y.
Rescue Mission, Sioux City, Iowa.
Library, Logansport, Ind.
Library, Middletown, Ohio.
Christian University Gymnasium, Canton, Mo.
Luna Theatre, Danville, Pa.
Howard Hotel, Sioux City, Iowa.
Halstead Street Bank, Chicago, Ill.
Public Schools, Wellsburg, Pa.
Harper Hospital, Detroit, Mich.
First National Bank Building, Ebensburg, Pa.
Woodward Iron Co. Buildings, Woodward, Ala.
Brown Apartment, Des Moines, Iowa.
Geo. Davidson's Buildings, Pittsburgh, Pa.
New Science Building, University of Michigan.
St. Martha's House, Philadelphia, Pa.
West Walnut Apartment House, Philadelphia, Pa.
Lamb Building, Philadelphia, Pa.
Sullivan Building, Philadelphia, Pa.
St. Charles Hotel, Atlantic City, N. J.
Couzens Building, Detroit, Mich.
Horn & Hardart Building, Philadelphia, Pa.

Dampproofing foundations and masonry construction under earth covering to resist simple seepage pressure.

For Description of Truscon Foundation Coat, see back of this sheet.

Specifications

1. General:

The outside surface of all foundation walls shall be given two uniform applications of TRUSCON FOUNDATION COAT as manufactured by The Truscon Laboratories, Detroit, Michigan.

2. Condition of Surface:

The surface shall be thoroughly dry and free from any adhering earth or foreign matter so as to insure the thorough penetration and bond of the Foundation Coat to a sound, solid surface.

3. Application of First Coat:

TRUSCON FOUNDATION COAT shall be applied over the dry masonry surface with a large brush or mop, exercising special care to insure a uniform continuous coat.

4. Application of Second Coat:

After the first application has had opportunity to dry for twenty-four (24) hours, a second coat shall be applied over the entire exterior wall, to be certain that every portion of the wall has a perfectly continuous coating.

TRUSCON FOUNDATION COAT shall be allowed to dry for at least twelve (12) hours before being back-filled.



Applying Truscon Foundation Coat

Quantity Required:

One Coat: 1 gallon to about 125 sq. ft.

Two Coats: 1 gallon to about 80 sq. ft.





TRUSCON FOUNDATION COAT—A product for damp-proofing foundations and undergrade masonry under light pressure. It is applied with a large brush or mop, and provides a continuous coating free from microscopic pores. No heating apparatus required. Descriptive booklet "Truscon Damp-proofing Paints" furnished free upon request.

A Few Users of TRUSCON FOUNDATION COAT

Vitagraph Co. of America, New York City, N. Y.	Woodward Iron Co., Woodward, Ala.
Pennsylvania Water Supply, McCall's Ferry, Pa.	Hudson Motor Co., Detroit, Mich.
American Injector Co., Detroit, Mich.	Packard Motor Car Co., Detroit, Mich.
Uncle Sam Macaroni Co., Tecumseh, Mich.	Peninsular Engraving Building, Detroit, Mich.
State Normal Schools, Winona, Minn.	Flanders Office Building, Detroit, Mich.
Humboldt High School, St. Paul, Minn.	Davies Manufacturing Co., Alliance, Ohio.
Diesel-Wemmer Cigar Co., Delphos, Ohio.	First National Bank Building, Ebensburg, Pa.
Murphy-Potter Building, Detroit, Mich.	Ithaca High School, Ithaca, N. Y.
Howard Hotel, Sioux City, Iowa.	Cornell University (Training Building), Ithaca, N. Y.
Public Service Station, Waukegan, Ill.	

Dampproofing to prevent staining of cut stone.

For Description of Truscon Stone Backing see back of this sheet.

Specifications

1. General:

The unexposed sides of all cut stone shall be stainproofed by the application of TRUSCON STONE BACKING as manufactured by The Truscon Laboratories, Detroit, Michigan.

2. Condition of Surface:

The surface of the stone shall be dry and entirely free from any adhering earth or foreign material that would interfere with the direct bond and contact of the Stone Backing to the surface.

3. Application:

TRUSCON STONE BACKING shall be applied in an even, uniform continuous coat to all sides of the stone which are unexposed, to within one (1) inch of the surface.

4. Anchor Recesses:

In all cases where anchor recesses are chiselled from the stone after the application of TRUSCON STONE BACKING, the anchor must be thoroughly and continuously coated with TRUSCON STONE BACKING.

Twenty-four (24) hours shall be allowed for TRUSCON STONE BACKING to dry before the stones are set.

After setting the stone the mortar joints shall be continuously coated with TRUSCON STONE BACKING before the cut stone work is backed up with masonry.



Quantity Required:

1 gallon for each 125 to 150 sq. ft. of surface coated.



TRUSCON STONE BACKING is a black dampproof coating for treating unexposed sides of cut stone. It prevents staining and discoloration of stone due to absorption of the moisture from the mortar. Descriptive booklet entitled "Truscon Dampproofing Paints" may be had free upon request.

A Few Users of TRUSCON STONE BACKING

Bureau of Printing & Engraving, Washington,
D. C.
Alden Manor Apts., Detroit, Mich.
(1 bbl. Stone Backing).

Detroit News Bldg., Detroit, Mich.
Schoellenkroph Training Bldg., Cornell Univ.
Ithaca High School, Ithaca, N. Y.

Dampproof wash for cement or concrete surfaces.

For Description of Truscon
FerriTex see back of this
sheet.

Specifications

1. General:

All concrete shall be dampproofed by the application of from one to five thorough brush coats of TRUSCON FERRITEX, as manufactured and recommended by The Truscon Laboratories, Detroit, Michigan.

2. Condition of the Surface:

The surface shall be thoroughly cleaned of dirt, grease and foreign matter.

3. Application:

(a) FERRITEX POWDER as received in the can from manufacturer, shall be mixed with water in the proportion of four (4) pounds of FerriTex to the gallon of water, and this mixture applied to the concrete surface with a good, stiff, bristle brush.

(b) Ferritex does not dissolve in the water, but only mixes with it. Consequently, it is necessary that the mixture be kept continually agitated during each application, to insure powder remaining in suspension in the water.

(c) Apply one (1) to five (5) brush applications of FerriTex in this way, allowing from 5 to 6 hours in between coats for drying. The number of applications depends upon the porosity of the concrete, as a porous concrete requires a greater number of brush coats than a denser concrete.



Quantity Required:

About 10 lbs. FerriTex to each
100 sq. ft. of surface.



TRUSCON FERRITEX

This is a pulverized iron compound, made chemically active. It takes advantage of the well-known principle that iron on rusting expands enormously in volume. FERRITEX, when used as a brush coat over concrete or porous masonry, plugs up the pores by reason of this expansion and acts as a dampproofing.

It is often very convenient to be able to use a material like FERRITEX, which costs so little and is so readily applied, for dampproofing the interior of a cellar wall or concrete tank. Under such circumstances, a black dampproofing compound would not give service and a waterproof cement plaster coat is too expensive. For this purpose, FERRITEX fills a long felt want. It is to be noted, however, that where a decided hydrostatic pressure is encountered FERRITEX is not recommended. For such severe conditions, there is only one remedy—the use of an integral waterproofing as per specifications on sheets 1, 2 and 3, depending on the character of the work.

Users of TRUSCON FERRITEX

Luick Ice Cream Co., Milwaukee, Wis.
Livermore Hospital, Livermore, Calif.

Charles F. Parker, San Antonio, Texas.

Specifications

1. General:

All exterior masonry surfaces shall be given two liberal coats of TRUSCON STONETEX, as manufactured and recommended by The Truscon Laboratories, Detroit, Michigan.

2. Condition of Surface:

- (a) The surface to be coated shall be ABSOLUTELY DRY.
- (b) The wall shall be thoroughly brushed with a stiff broom, to remove all dirt or loose particles of any nature that would interfere with the direct bond of the finish with the surface.
- (c) TRUSCON STONETEX shall not be applied over any surface that has been previously painted, if the old coating shows any indications of cracking, peeling or scaling from the surface. All defective paint must be entirely scraped and burnt off the surface before re-coating.

3. Preparation of TRUSCON STONETEX:

- (a) The top of the package shall be entirely cut out to permit the thorough stirring and mixing of the contents. The goods shall be stirred with a stiff paddle until the pigment is evenly and uniformly mixed with the liquid.

4. Application of Coating:

- (a) Priming Coat: For Priming coat, over new and unpainted surfaces, add $1\frac{1}{2}$ pints of SPECIAL STONETEX LIQUID to each gallon of STONETEX as furnished. This is practically equivalent to adding 1 gallon of SPECIAL STONETEX LIQUID to each 5 gallons of STONETEX for the priming coat. This priming coat of STONETEX and STONETEX LIQUID shall be applied in an even, uniform coating, brushing well into the pores of the surface.
- (b) Second Coat: After the first coat has been allowed at least 48 hours and preferably 72 hours to become thoroughly hard and dry, a second coat shall be applied to give the most uniform and effective damp-proof finish. The second coat shall be of exactly the same consistency, as furnished in the original package, without any addition of STONETEX LIQUID as recommended for the first coat only.

Painting concrete and masonry with dampproof coating.



For Description of Truscon StoneTex see back of this sheet.



BEFORE
Stonetex makes Old Buildings look like New



AFTER

Quantity Required (Unpainted Masonry):

EXAMPLE—To find quantity of StoneTex and StoneTex Liquid required for 9,000 sq. ft. of unpainted masonry surface two coats.—(covering capacity 100 square feet to the gallon):

Thus:— $9,000 \text{ sq. ft.} \div 100 = 90 \text{ gallons.}$

ANSWER $\left\{ \begin{array}{l} 1-10 \text{ of } 90 \text{ gals.} = 9 \text{ gals.} \text{—quantity of StoneTex Liquid.} \\ 9-10 \text{ of } 90 \text{ gals.} = 81 \text{ gals.} \text{—quantity of StoneTex.} \end{array} \right.$

NOTE—StoneTex Liquid to be used only in the first coat.

Quantity Required (Painted Masonry):

1 gal. StoneTex to each 125 sq. ft.
No Liquid necessary.



TRUSCON STONETEX

TRUSCON STONETEX is the nationally known, specialized coating for exterior concrete and masonry, above grade. It dampproofs and protects exterior masonry from soiling, discoloration and even decay. It seals the pores and prevents rain and damp air from entering. It is particularly adapted to concrete, stucco, brick, stone and such surfaces for the following reasons:

- (1) Extremely weather-resisting and waterproof.
- (2) Highly resistant to the action of free lime in cement surfaces.
- (3) Dries flat, giving the beautiful texture and appearance of stone, rather than that of a painted surface.

Although paint coatings usually are of short life, nevertheless, there are hundreds of examples of buildings coated with STONETEX from six to ten years ago, which today are still dampproof and in excellent condition. STONETEX is salt air resistant and for this reason is used on many light-houses and other buildings along the sea coast. Applied with brush or spray. Descriptive booklet showing colors, free on request.

A Few Users of TRUSCON STONETEX

Horlick's Malted Milk Co., Racine, Wis.	Mishawaka Woolen Mills, Mishawaka, Ind.
Bay City Industrial Works, Bay City, Mich.	Standard Oil Company of Indiana.
Pennsylvania Rubber Co., Jeannette, Pa.	U. S. Rubber Co. Bldg., New York, N. Y.
United Brethren Publishing Co., Dayton, Ohio.	Midway Gardens, Chicago, Ill.
Rockford Mitten & Hosiery Co., Rockford, Ill.	Monroe High School, Monroe, Mich.
Hershey Chocolate Co., Hershey, Pa.	Bonham Court House, Bonham, Texas.
Beechnut Packing Co., Canajoharie, N. Y.	Nola Building, New Orleans, La.
University of Michigan, Ann Arbor, Mich.	Zonar Building, Dayton, Ohio.
American Wire & Steel Company, Pittsburgh, Pa.	Westminster Presbyterian Church, Charleston, S. C.
T-Square Club for Architects, Philadelphia, Pa.	Ziack Warehouse, Rockford, Ill.
Plaza Hotel, San Francisco, Cal.	Hospital for the Insane, Hawaiian Islands.
United States Govt. Lighthouses, Panama Canal.	Kneedler Building, Manila, P. I.
Edison Illuminating Co., Detroit, Mich.	American Colonial Bank, San Juan, Porto Rico.
Portland Railway Light & Power Co., Portland, Ore.	Muroran Round House, Japan.
United States Army & Navy Hospital, Hot Springs, Arkansas.	Arctic Ice Cream Co., Detroit, Mich.
Dodge Bros., Detroit, Mich.	Curtis Publishing Co., Philadelphia, Pa.
Hotel Tuller, Detroit, Mich.	Eastman Kodak Co., Rochester, N. Y.
Hotel Metropole, Detroit, Mich.	Fisher Body Ohio Company, Cleveland, Ohio.
Griswold Hotel, Detroit, Mich.	Ford Motor Company, Detroit, Mich.
Rockford Electric Company, Rockford, Ill.	Henry Ford, Dearborn, Mich.
Studebaker Corporation, South Bend, Ind.	Mrs. H. M. King's Residence, Kingsville, Texas.
	Palmolive Co., Milwaukee, Wis.

Transparent Dampproofing

For stone, stucco, brick, concrete, and all other porous exposed masonry surfaces.

Specifications

1. General:

All exterior masonry walls shall be given two liberal coats of TRUSCON SUPER POR-SEAL, as manufactured by The Truscon Laboratories, Detroit, Michigan.

2. Condition of Surface:

All surfaces to be treated with TRUSCON SUPER POR-SEAL shall be thoroughly dry at the time of application, to insure thorough penetration and absorption of the product into the pores.

3. Application of First Coat:

To the dry masonry surface apply a liberal saturating coat of TRUSCON SUPER POR-SEAL, flowing on with a large wall brush that will carry a large quantity of liquid.

4. Application of Second Coat:

After the first coat has dried for at least 12 hours, a second application of TRUSCON SUPER POR-SEAL shall be made, applying liberally as in the first coating, to insure the thorough saturation of the surface necessary to seal the pores.

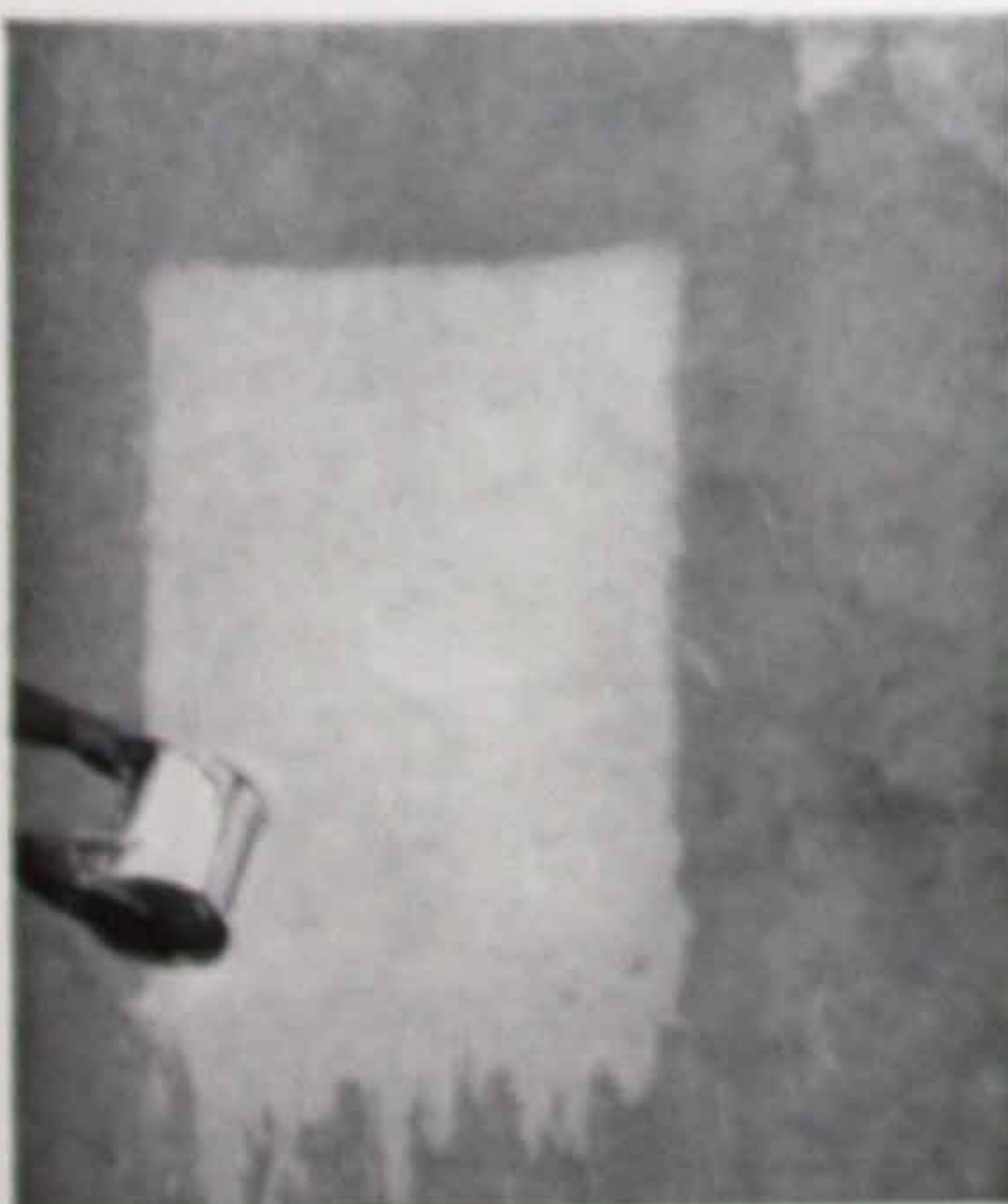
5. Special Caution:

Special care shall be exercised to be certain that the entire exposed masonry area is treated and that the application is absolutely continuous.

Note: Use less on brick, as brick is not so porous and absorbent as concrete.



For Description of Truscon Super Por-Seal see back of this sheet.



The light section is SUPER POR-SEALED
Note that water does not darken the stucco—no absorption

Quantity Required:

Two Coats: 1 gal. to about 100 sq. ft.

One Coat: 1 gal. to about 150 sq. ft.



TRUSCON SUPER POR-SEAL

TRUSCON SUPER POR-SEAL is a transparent dampproofing for exterior cement, concrete, stucco, brick and masonry surfaces. Can be used on white cement or Bedford stone without any danger of discoloration. This material is entirely different from ordinary transparent dampproofings in that it does not depend upon waxes or mineral oils for its dampproofing effect. On the contrary, it is a composition of highly repellent chemicals, in a clear solution, which have no appreciable discoloring effect on even the most delicately tinted surfaces. SUPER POR-SEAL is recommended for white stucco and Bedford Stone because in addition to dampproofing, it keeps the surface clean. Applied with brush or spray. Descriptive circular on request.

A Few Users of TRUSCON SUPER POR-SEAL

Garden State Dairy, Philadelphia, Pa.	Larson-Danielson Construction Co., Laporte, Ind.
Sullivan Building, Philadelphia, Pa.	Indiana Springs Co., Kramer, Ind.
Riverside School, Riverside, N. Y.	Neff-Stiles Co., El Paso, Texas.
Indiana Avenue Public School, Atlantic City, N. J.	Superior Art Stone, Dayton, Ohio.
Woodland School, Woodland, N. J.	Beaver Power Building, Dayton, Ohio.
W. G. Johnson Building, Pittsburgh, Pa.	City Hall, Grand Rapids, Mich.
New York State Capitol Building, Albany, N. Y.	Anthony Brady Residence, Albany, N. Y.
Kettle River Company, Sandstone, Minn.	Fairmount High School, Fairmount, N. Y.

Paint for Wet Concrete and Masonry.

For Description of Truscon StuccoTex see back of this Sheet.

Specifications

1. General:

All wet surfaces shall be given two coats of TRUSCON STUCCOTEX, as manufactured by The Truscon Laboratories, Detroit, Michigan.

2. Condition of Surface:

All surfaces to be treated with STUCCOTEX shall be free of oil paint, cold water paint, size, oil, grease or any other foreign matter which would retard or prevent direct contact of STUCCOTEX with the surface. Must also be scraped free from loose particles. Before applying STUCCOTEX saturate the surface thoroughly with water.

3. Preparation of STUCCOTEX:

Mix STUCCOTEX thoroughly with water in the proportion of 10 lbs. of the dry powder with $2\frac{1}{2}$ quarts of water. This will produce a paint of a heavy, buttery consistency, suitable for brushing.

Mix only enough STUCCOTEX for immediate use. Any STUCCOTEX that has been mixed longer than two hours shall be thrown away.

4. Application of First Coat:

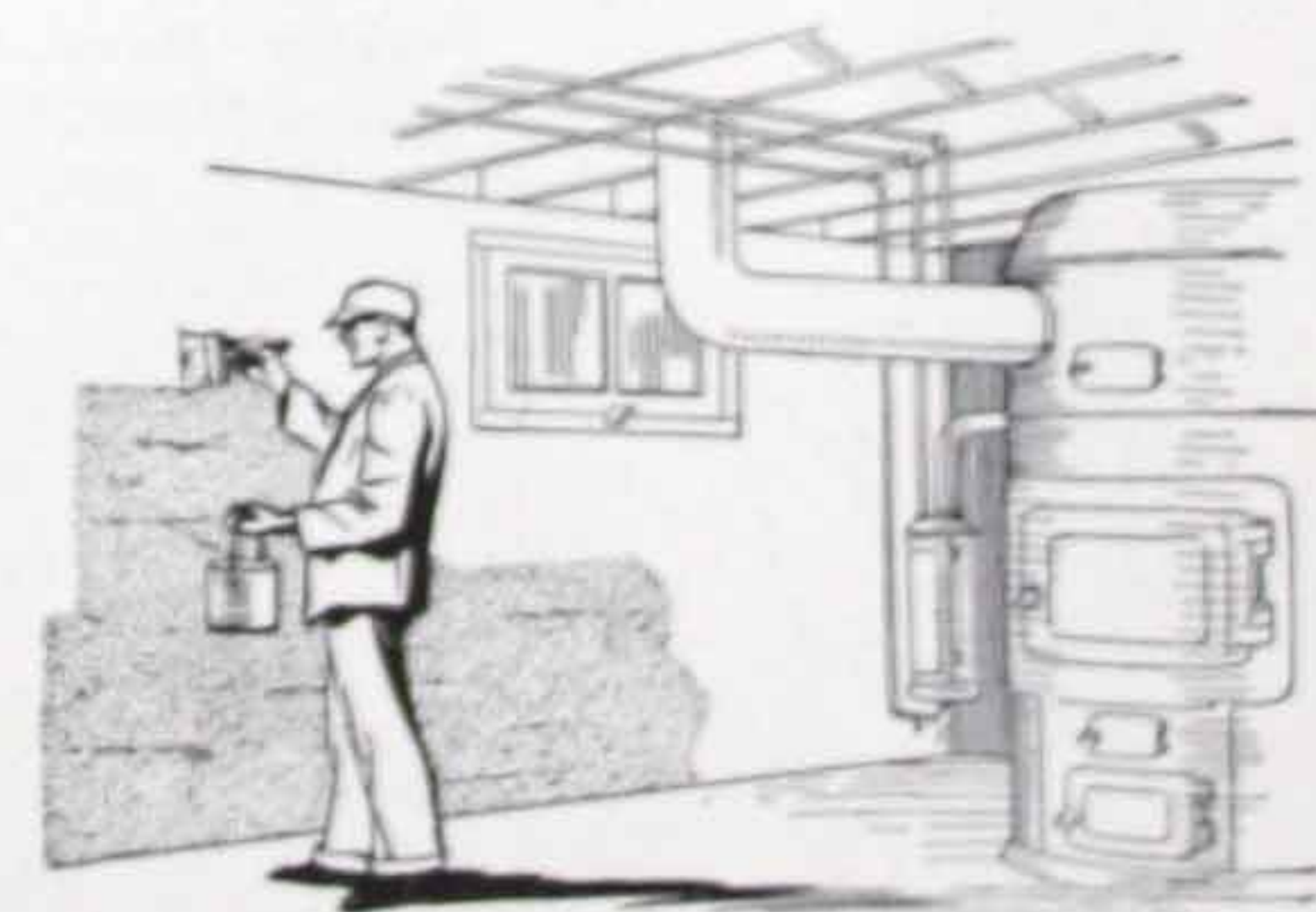
To the water saturated surface (not merely wet, but saturated) apply with an ordinary paint brush a first coat of STUCCOTEX, brushing same carefully into the pores.

5. Application of Second Coat:

After the first coat has set about 12 hours, saturate the surface again and apply a second coat in the same manner.

6. Special Caution

Keep STUCCOTEX surface wet—in fact during very warm or dry weather, spray the surface for several days while paint is hardening. Keep STUCCOTEX container dry and tightly covered.



Quantity Required:

A 10 lb. can of StuccoTex, mixed with $2\frac{1}{2}$ quarts of water, will produce about 1 gallon of paint. This is sufficient for covering about 125 sq. ft. of surface, 2 coats, or 200 sq. ft. 1 coat.





TRUSCON STUCCOTEX

TRUSCON STUCCOTEX is a hydraulic paint used for uniforming concrete and masonry surfaces, or for decorating wet or damp surfaces of any kind, on which oil paints cannot be successfully used.

STUCCOTEX comes as a dry powder which is mixed with water to the right consistency and brushed on to the surface after that surface has been thoroughly saturated with water.

STUCCOTEX has often been described as a paint for wet surfaces, because it is so well adapted to this use. About the only coating that can be used for such a surface is a cement wash, and STUCCOTEX is far more durable than a cement wash; its coloring is more uniform, and it does not flake off as cement washes are apt to do.

A Few Users of TRUSCON STUCCOTEX

Peveley Dairy, St. Louis, Mo.
Syncro Motor Co., Battle Creek, Mich.

Belle Ewart Ice Co., Toronto, Ontario.

Oilproofing Concrete tank

prevents seepage of mineral
oils out of concrete tanks.

For Description of Truscon
FerriTex see back of this
sheet.

Specifications

1. General:

All concrete shall be oil-proofed by the application of from one to five thorough coats of TRUSCON FERRITEX, as manufactured and recommended by The Truscon Laboratories, Detroit, Michigan.

2. Condition of the surface:

The surface should be thoroughly cleaned of dirt, grease and foreign matter.

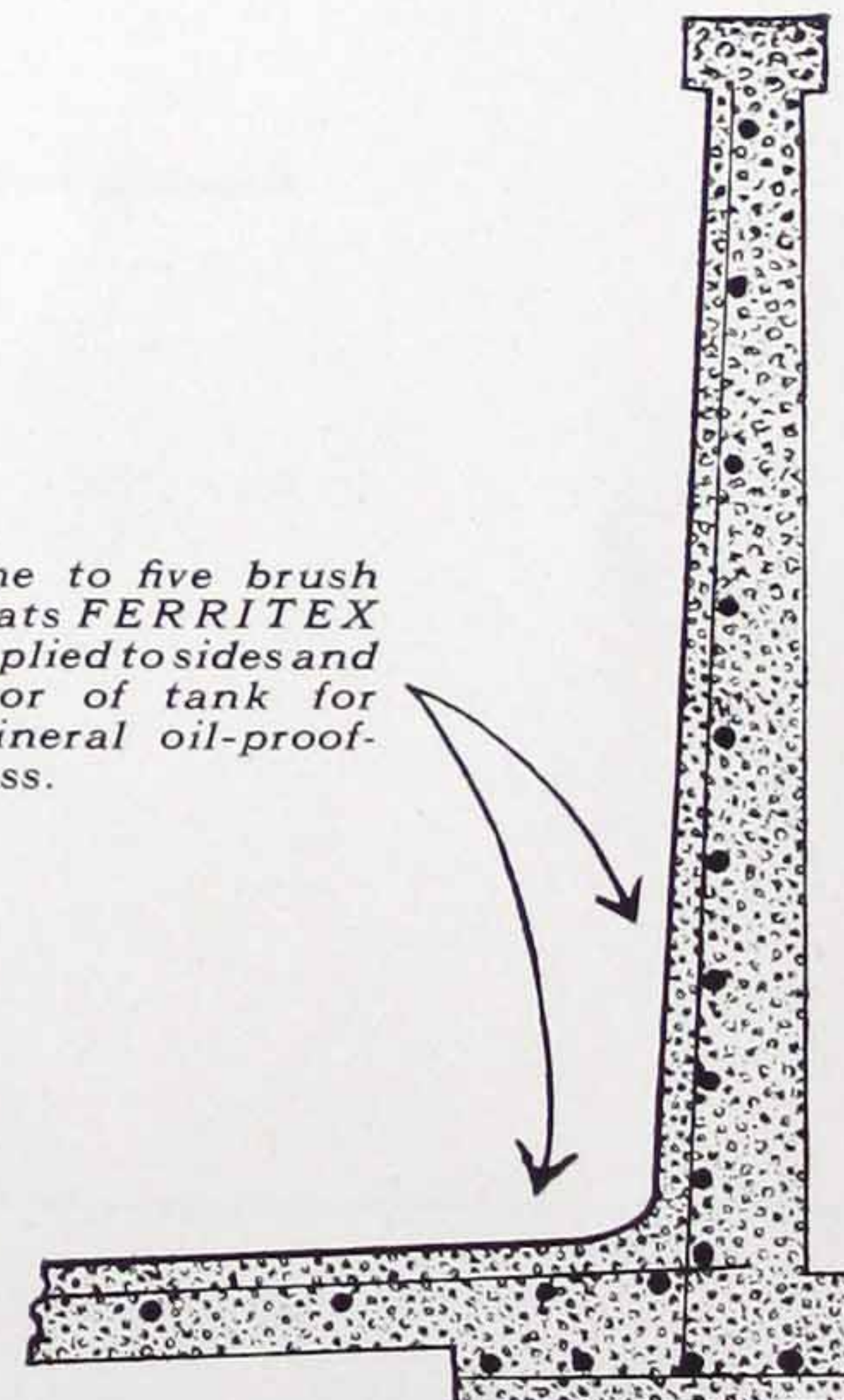
3. Application:

(a) FERRITEX POWDER as received in the can from manufacturer shall be mixed with water in the proportion of four (4) pounds of FERRITEX to the gallon of water, and this mixture applied to the concrete surface with a good, stiff, bristle brush.

(b) FERRITEX does not dissolve in the water, but only mixes with it. Consequently, it is necessary that the mixture be kept continually agitated during all applications, to insure powder remaining in suspension in the water.

(c) Apply one (1) to five (5) brush applications of FERRITEX (depending upon the porosity of the surface) making each application liberal and brushing the FERRITEX carefully into the pores of the concrete. Allow from five to six hours in between coats for drying.

One to five brush
coats FERRITEX
applied to sides and
floor of tank for
mineral oil-proof-
ness.



Quantity Required:

About 10 lbs. Ferritex to each
100 sq. ft. of surface.





TRUSCON FERRITEX—FerriTex is a pulverized iron compound which is mixed with water and applied in successive brush applications, as specified. It is absorbed into the pores of the concrete, and on drying expands, filling these pores completely, thereby plugging the same and preventing absorption of liquids. Ferritex has been used very successfully for oil-proofing concrete tanks. It prevents loss of mineral oil due to seepage.

Users of TRUSCON FERRITEX

Republic National Bank, Dallas, Texas.

Ford Motor Company, Dallas, Texas.

Quick Set and Anti-Freeze

for concrete and cement mortar.

For Description of Truscon Temperite see back of this sheet.



Specifications

1. General:

TRUSCON TEMPERITE, manufactured by The Truscon Laboratories, Detroit, Michigan, shall be used in concrete or cement mortar as directed below:

2. If TEMPERITE Liquid:

Thin TEMPERITE Liquid in the proportion of one (1) gallon Liquid to ten (10) gallons of water. Use this mixture of TEMPERITE and water in place of clear water for gauging the mixture of cement and aggregate.

If TEMPERITE Dry Concentrated:

Throw two (2) pounds of TEMPERITE Dry Concentrated into the mixer for every bag of cement, turning the mixer over a sufficient number of times to insure a thorough solution and distribution of TEMPERITE.

Quantity Required:

Truscon Temperite Liquid—Estimate about $\frac{1}{2}$ gal. to each bag of cement.

Truscon Temperite Dry Concentrated—Estimate 2 pounds to each bag of cement.



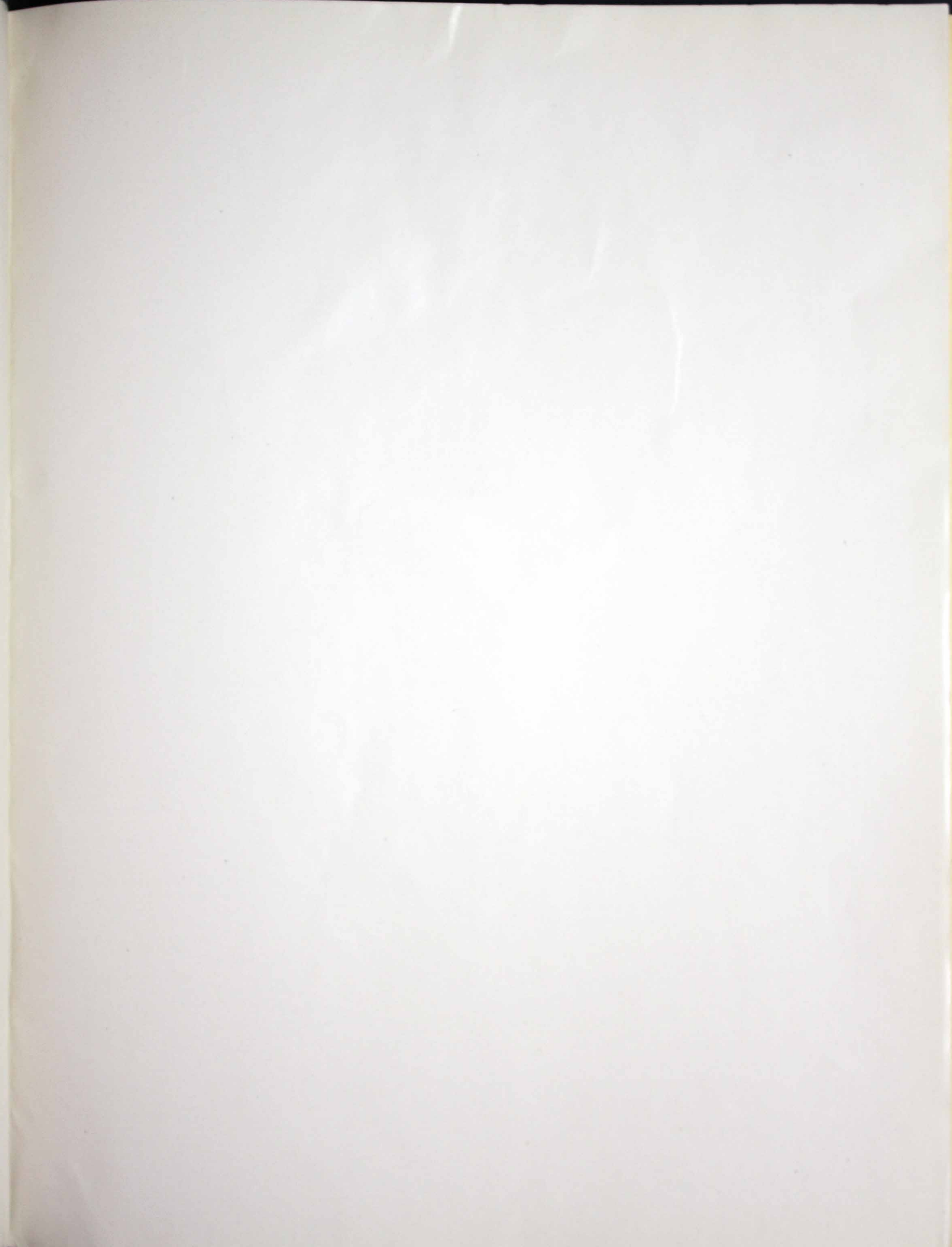
TRUSCON TEMPERITE is a chemical compound for tempering cement mixes. It is furnished in either the Liquid or the Dry concentrated form, whichever is preferred.

Temperite accelerates the set of the cement mix, lowers the freezing point, and in general brings the cement to its point of final strength and hardness in a much shorter time than when Temperite is not used. It helps retain moisture and thus assists in hydration.

Users of TRUSCON TEMPERITE

Wishawaka Woolen & Rubber Co., Mishawaka,
Ind.
Briggs Mfg. Co., Detroit, Mich.
H. G. Christman Co., South Bend, Ind.
U. S. Veterans Hospital, Camp Custer, Mich.

Detroit Edison Co., Detroit, Mich.
Durant Motors, (H. G. Christman), Flint, Mich.
Sisters of Precious Blood, Salem Pike, Dayton,
Ohio.





The Mark of
TRUSCON
WATERPROOFINGS
AND WATERPROOF
PAINTS
VARNISHES
ENAMELS